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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: MULTILAYER BLOWN FILM AND PROCESS FOR PRODUCTION THEREOF

(57) Abstract: Process for producing by blow-moulding a multilayer film containing at least a polyamide layer and a polyolefin layer, with a branched polyamide being used as polyamide, and a multilayer film containing at least a polyamide layer and a polyolefin layer directly connected thereto or connected thereto by an adhesive layer, wherein the polyamide is a branched polyamide.

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INTERNATIONAL SEARCH REPORT

PCT/NL 03/00242

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B32B27/32 B32B27/34 B29C47/06 C08J5/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 47468 A (ALLIED SIGNAL INC) 18 December 1997 (1997-12-18) claim 16	1-7
P, X	EP 1 216 823 A (DEGUSSA) 26 June 2002 (2002-06-26) column 3, line 42 - line 48 column 6, line 54 - column 7, line 21; claim 1	5-7

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9747468	A	18-12-1997	US 2003129428 A1	10-07-2003
			AU 718513 B2	13-04-2000
			AU 3484397 A	07-01-1998
			BR 9712619 A	15-01-2002
			CA 2257724 A1	18-12-1997
			CN 1227524 A	01-09-1999
			EP 0904198 A1	31-03-1999
			JP 2000512574 T	26-09-2000
			KR 2000016532 A	25-03-2000
			WO 9747468 A1	18-12-1997
EP 1216823	A	26-06-2002	DE 10065177 A1	27-06-2002
			AT 243116 T	15-07-2003
			AU 9737501 A	27-06-2002
			BR 0106242 A	20-08-2002
			CA 2365800 A1	23-06-2002
			CN 1363465 A	14-08-2002
			DE 50100321 D1	24-07-2003
			EP 1216823 A2	26-06-2002
			JP 2002234122 A	20-08-2002
			NO 20016309 A	24-06-2002
			US 2002082352 A1	27-06-2002

INTERNATIONAL SEARCH REPORT

PCT/NL 03/00242

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9747468	A	18-12-1997	US 2003129428 A1	10-07-2003
			AU 718513 B2	13-04-2000
			AU 3484397 A	07-01-1998
			BR 9712619 A	15-01-2002
			CA 2257724 A1	18-12-1997
			CN 1227524 A	01-09-1999
			EP 0904198 A1	31-03-1999
			JP 2000512574 T	26-09-2000
			KR 2000016532 A	25-03-2000
			WO 9747468 A1	18-12-1997
EP 1216823	A	26-06-2002	DE 10065177 A1	27-06-2002
			AT 243116 T	15-07-2003
			AU 9737501 A	27-06-2002
			BR 0106242 A	20-08-2002
			CA 2365800 A1	23-06-2002
			CN 1363465 A	14-08-2002
			DE 50100321 D1	24-07-2003
			EP 1216823 A2	26-06-2002
			JP 2002234122 A	20-08-2002
			NO 20016309 A	24-06-2002
			US 2002082352 A1	27-06-2002